



CITY OF PORTAGE LA PRAIRIE WATER POLLUTION CONTROL FACILITY 2010 ANNUAL REPORT

The Water Pollution Control Facility operated within Environment Licence limits for the entire year, with the exception of two days, December 4th and 5th, when the suspended solids limit was exceeded (see graphs). The cause of the high suspended solids in the WPCF final effluent on Sunday December 5th and Monday December 6th was Operator error. The operator in charge turned on the pumps in Basin Four to completely mix the contents and enable him to get a mixed liquor sample which he had missed during the React cycle. After the sample was obtained he neglected to turn the pumps off and let the basin settle before the Decant cycle. This allowed the basin to decant while fully mixed and resulted in an exceedance of our environment licence. This was reported to Manitoba Conservation as per our Environment Licence requirement.

The spikes on the total and fecal coliform graphs do not constitute an exceedance of our licence. The reported number is the result of a geometric mean calculation.

Repairs to and inspection of the Sequencing Batch Reactor system took one of the four basins out of service for most of the summer months. A 24 inch stainless steel air line to Basin #3 was replaced and a decant header repaired.

Municipal flows to the plant continued to increase for the second consecutive year. In 2008 for example, Municipal wastewater flows averaged 6.3 mega - liters per day and in 2009 they were over a million liters per day greater on average at 7.4 ML/d.

Municipal flows increased again in 2010 to an average of 8.3 ML/d, a significant increase. This is likely due to high ground water levels contributing to infiltration and inflow from sump pumps into the collection system. Large spikes in the Municipal influent in June and November correspond closely to major weather events. Western Manitoba experienced heavy rainfall of 30-50mm on June 17 - 18, 2010. Some areas received at least 75 mm . The October 26 to 28 severe rain and wind storm event is closely aligned with the high influent spike in early November. Industrial flows remained virtually the same as 2009.

Further study was conducted on P (phosphorous) removal in 2010. To date, no direction to proceed has been received from Manitoba Conservation.

The studies undertaken to date have focused on upgrading the existing facilities and utilizing existing infrastructure to the extent possible. These have also been based on anticipated requirements for the reduction of both P and nitrogen in the effluent directed to the river. Co-operation with the major industries in Portage la Prairie is expected.

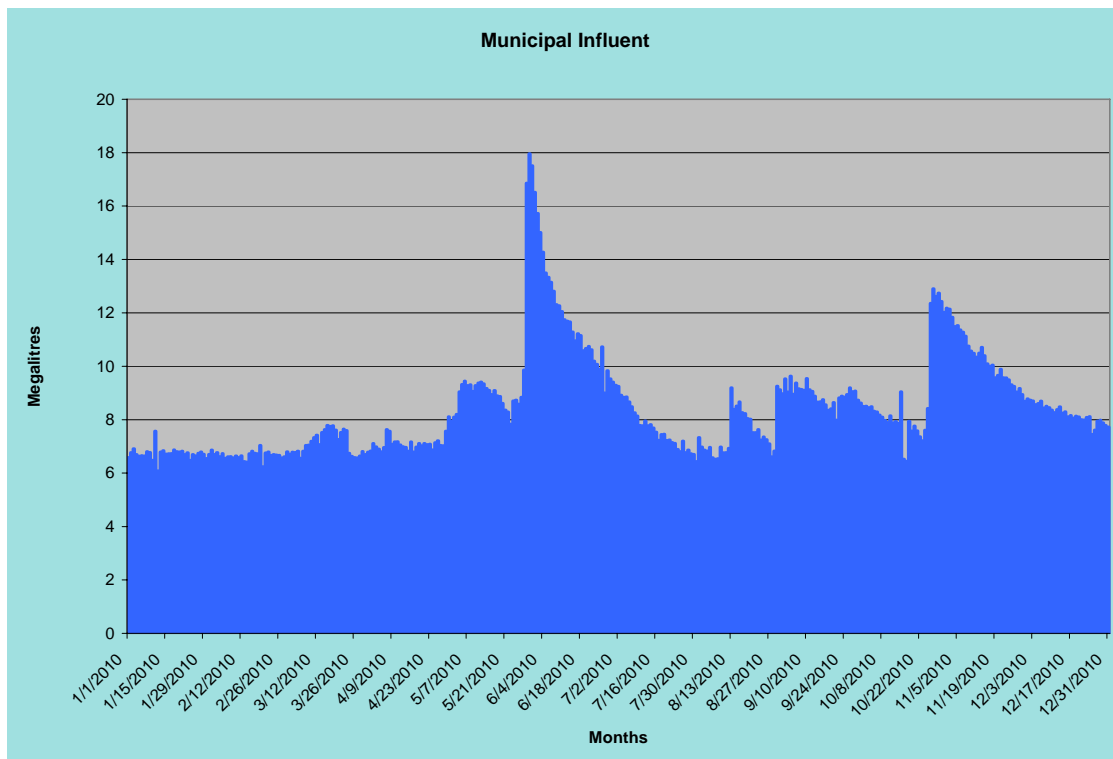
Some Industrial Agreements will expire in 2011 and must be re-negotiated.

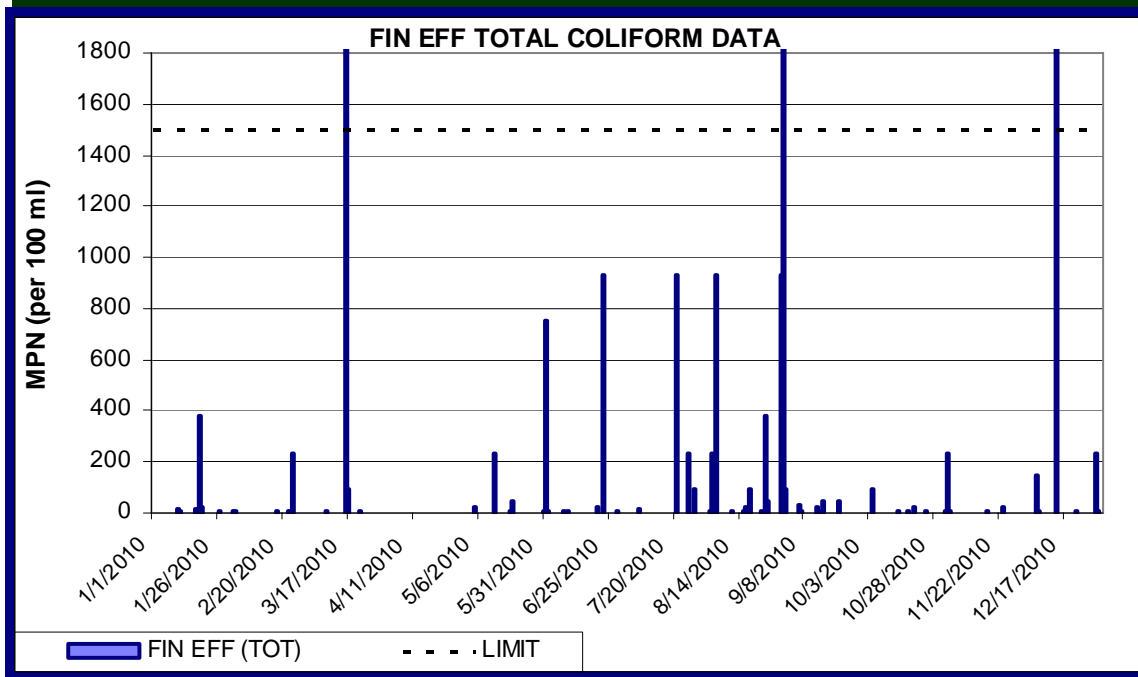
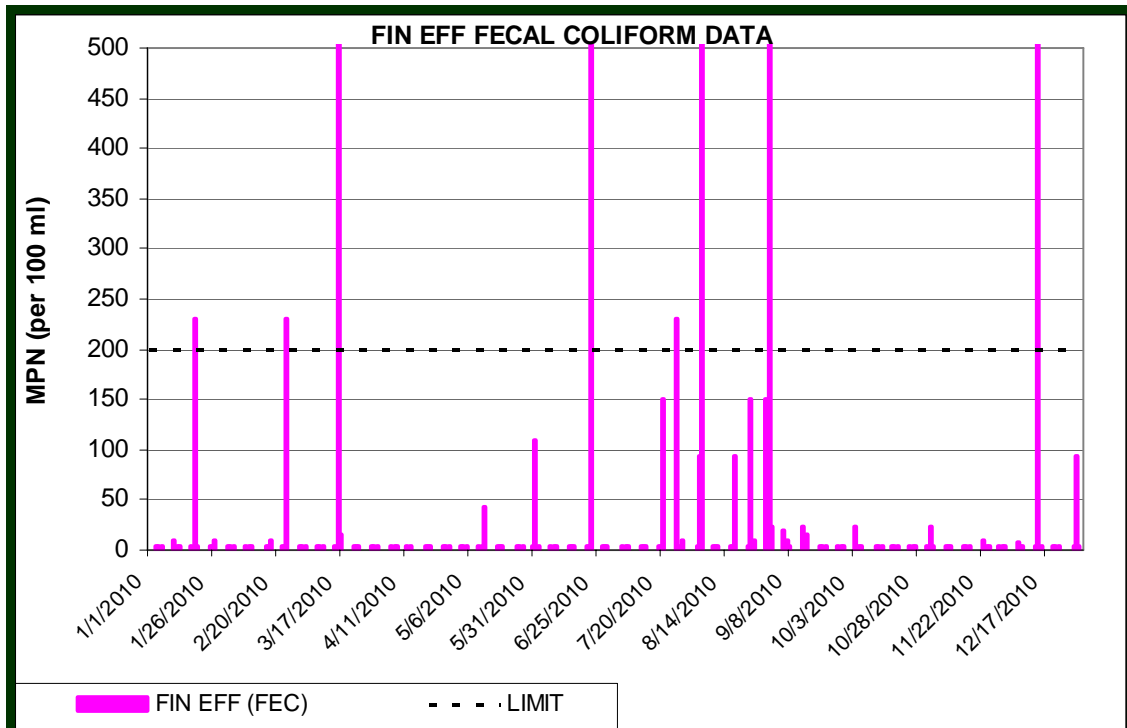
There were strong odors emanating from the Water Pollution Control Facility site from time to time throughout the year. These were caused by problems with the cover on the Bulk Volume Fermenter, operated by Industry, and a frozen gas collection pipe from the Anaerobic Digester which required venting biogas to atmosphere.

There were no catastrophic equipment failures during the year as our preventive maintenance program worked well.

Conditional Operator Certificates issued when certification became mandatory are expiring. Operators continue to take courses and write examinations to become certified by examination at the level of the utility. Operators in Class 3 and 4 Water Treatment Plants, as with Wastewater Treatment Operators, can now substitute continuing education units for post-secondary education in the certification process. Those failing a Certification Exam can now re-write in 4 months instead of waiting a year.

The new trade of Water and Wastewater Technician will become official with publication in the Manitoba Gazette February 12, 2011.





COLIFORM YEAR TO DATE ANALYSIS

FECAL COLIFORM ANALYSIS (FEC)

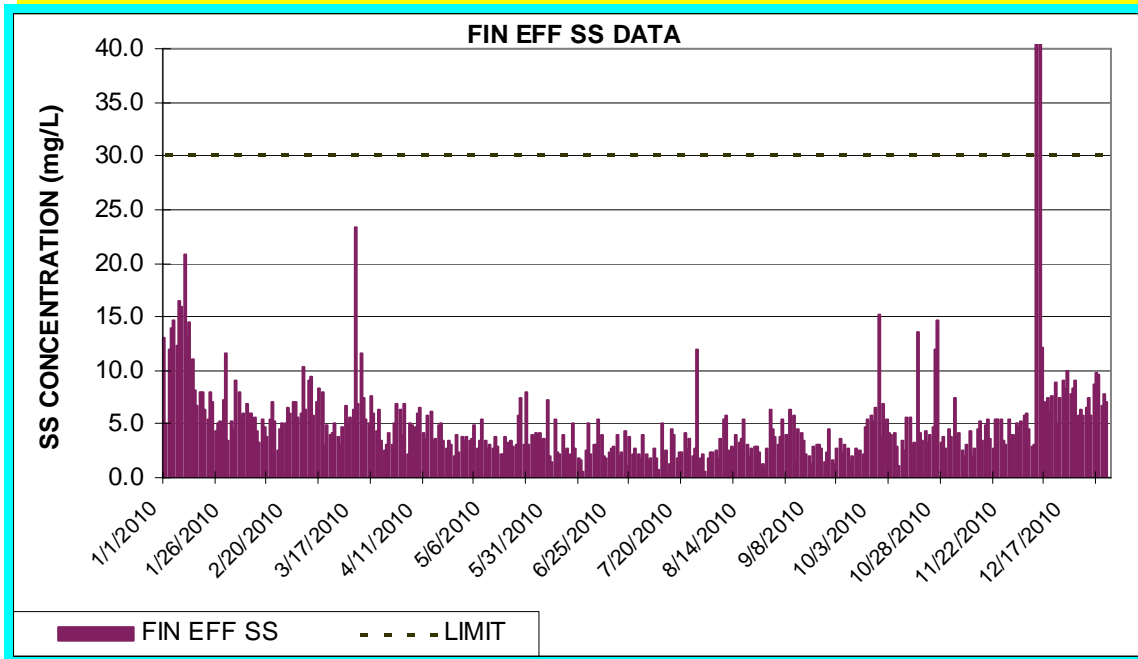
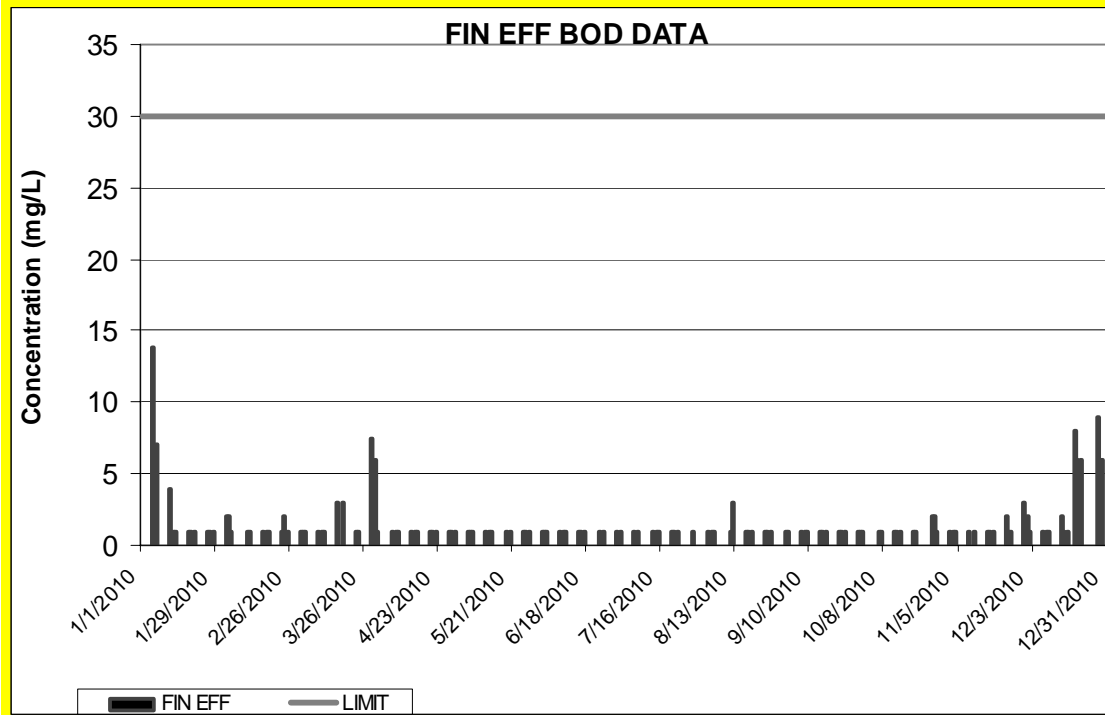
TOTAL COLIFORM ANALYSIS (TOT)

TOTAL
ANALYZED
GEOMEANS

155
6.7

TOTAL
ANALYZED
GEOMEANS

155
9.6



YEAR TO DATE ANALYSIS RESULTS

FIN EFFBOD DATA

TOT. #FAILURES 0
 TOT. SAMPLES ANALYZED 141
 PERCENT FAILURE 0.00%

SS ANALYSIS

TOT. #FAILURES 2
 TOT. SAMPS ANALYZED 365
 PERCENT FAILURE 0.55%

